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Derwent Title:

Prepn. of amidated pectin(s) from dried plant residues - by treatment with gaseous ammonia and extn.

Original Title:

DE4013765A1 Verfahren zur Herstellung von amidierten Pektinen

Assignee:

AMINO GMBH Non-standard company

Inventor:

STEINMETZE W; STEINMETZER W;

Accession/
Update:

1991-326553 / 199145

IPC Code:

A23L 1/308 ; A23C 9/15 ; A23L 1/015 ; A23L 1/30 ; C08B 37/06 ;

Derwent
Classes:

D13;

Manual
Codes:

D03-H01J(Gelled food products, thickeners) , D03-H01T(Low calorie, health and dietary foods, general) , D06-H(Polysaccharides general)

Derwent
Abstract:

(DE4013765A) Amidated pectins are prep'd. by (a) treating dried plant residues with gaseous NH₃ and (b) extracting the amidated pectins from the residues. USE/Advantage - Pectins of low degree of esterification are used in prepn. of low-sugar jam for diabetics, or low-calorie foods, and also in prodn. of milk jellies. Further applications include jellied broth, aspic, jellied desserts, dessert fruits, foamed foods, and jellied goods. Usable amidated pectins are obt'd. from previously useless plant residues, e.g. residues of sugar beet. The degree of amidation and of esterification can be regulated (claimed), and reaction time is shorter. The pectin amide is easily sepd. from the solns. by acidification to pH 2.0. Water-soluble impurities are removed, and a residue contg. very pure cellulose and hemicellulose is obt'd.; this can be washed, neutralised with acid, dried and ground, to give a material which can be used as ballast or filler (claimed) in prodn. of calorie reduced foods and dietetic prods. Pref., residues of sugar beet are used and the treatment with NH₃ is at room temp., by passing the dried plant residues through an atmos. of NH₃ in a reaction tower.

Dwg.0/0, Dwg.0/0

Family:

[PDF](#) [Patent](#)

[Pub. Date](#) [Derwent Update](#) [Pages](#) [Language](#) [IPC Code](#)

DE4013765A * 1991-10-31 199145 German A23C 9/154

Local appls.: DE1990004013765 Filed:1990-04-28 (90DE-4013765)

DE4042405C2 = 1993-04-15 199315 3 German A23L 1/308

Local appls.: Div ex DE04013765 (DE 4013765)

Div ex DE1990004013765 Filed:1990-04-28 (90DE-4013765)

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DE4013765C = 1992-02-27 199209 German A23C 9/154

Local appls.:

INPADOC

Legal Status:

First Claim:
Show all claims

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1. Verfahren zur Herstellung von amidierten Pektinen aus getrockneten pflanzlichen Rückständen, **dadurch gekennzeichnet**, daß die getrockneten pflanzlichen Rückstände zunächst mit gasförmigem Ammoniak behandelt und anschließend die amidierten Pektine aus den pflanzlichen Rückständen extrahiert werden.

Priority Number:

| Application Number | Filed | Original Title |
|------------------------|------------|---|
| <u>DE1990004013765</u> | 1990-04-28 | VERFAHREN ZUR HERSTELLUNG VON AMIDIERTEN PEKTINEN AUS GETROCKNETEN PFLANZLICHEN RUECKSTAENDEN |
| <u>DE1990004042405</u> | 1990-04-28 | VERFAHREN ZUR HERSTELLUNG VON DIAETETISCHEN BALLAST- ODER FUELLSTOFFEN |

Title Terms:

PREPARATION AMIDATION PECTIN DRY PLANT RESIDUE TREAT GAS AMMONIA EXTRACT